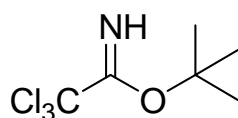


PROBLEMS

1) *t*-Butyl ethers and esters can be readily made from the corresponding alcohols and carboxylic acids by mixing the reagent shown below with *t*-butanol in the presence of catalytic amount of BF_3 etherate.

a) Write a mechanism for these transformations.

b) How do you prepare *t*-butyl 2,2,2-trichloroacetimidate?



2) When the antibiotic emycin F is treated with acid, it rearranges to emycin E. Write a mechanism for this transformation.

